

FIG. 1

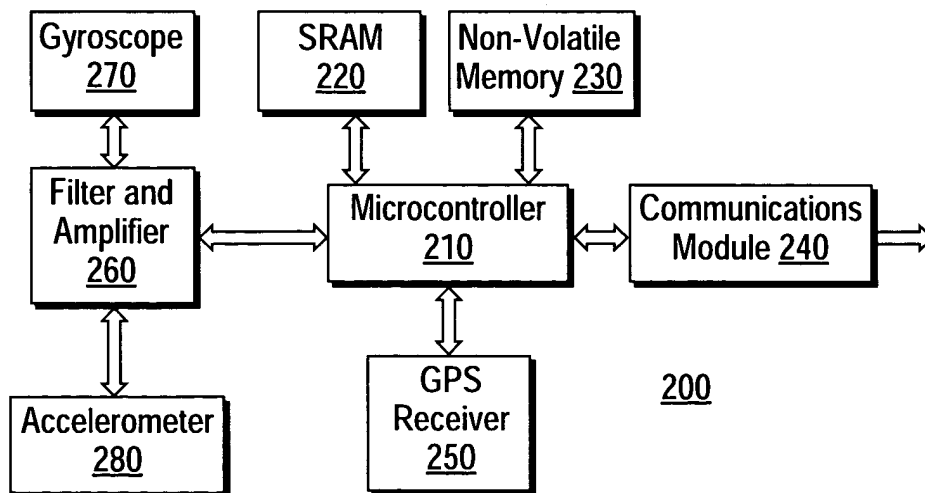


FIG. 2

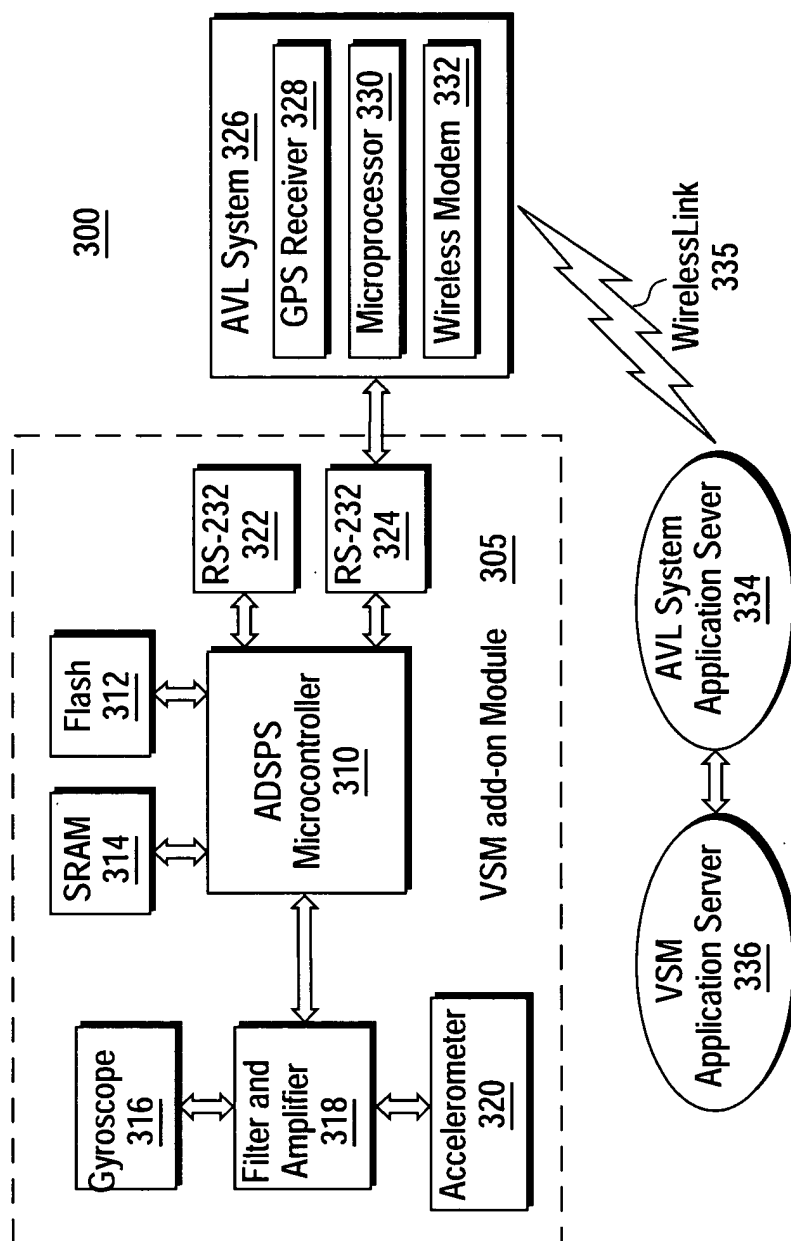


FIG. 3A

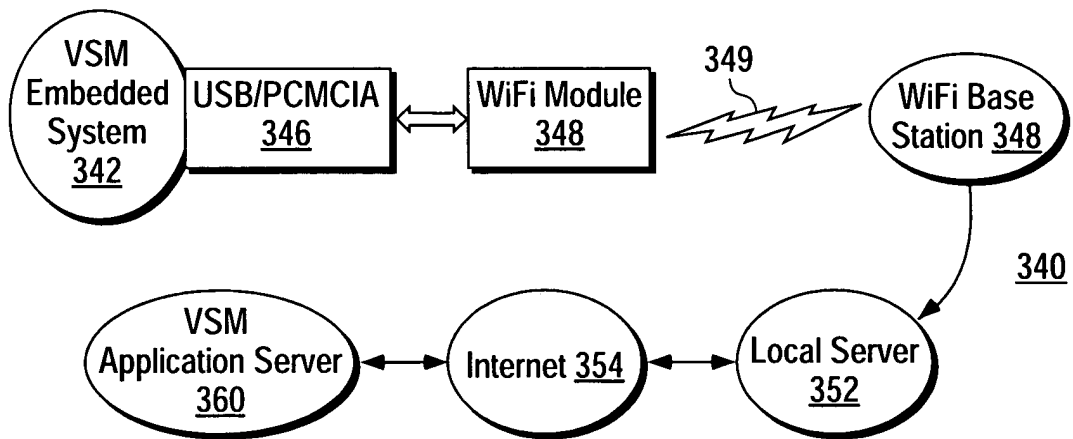
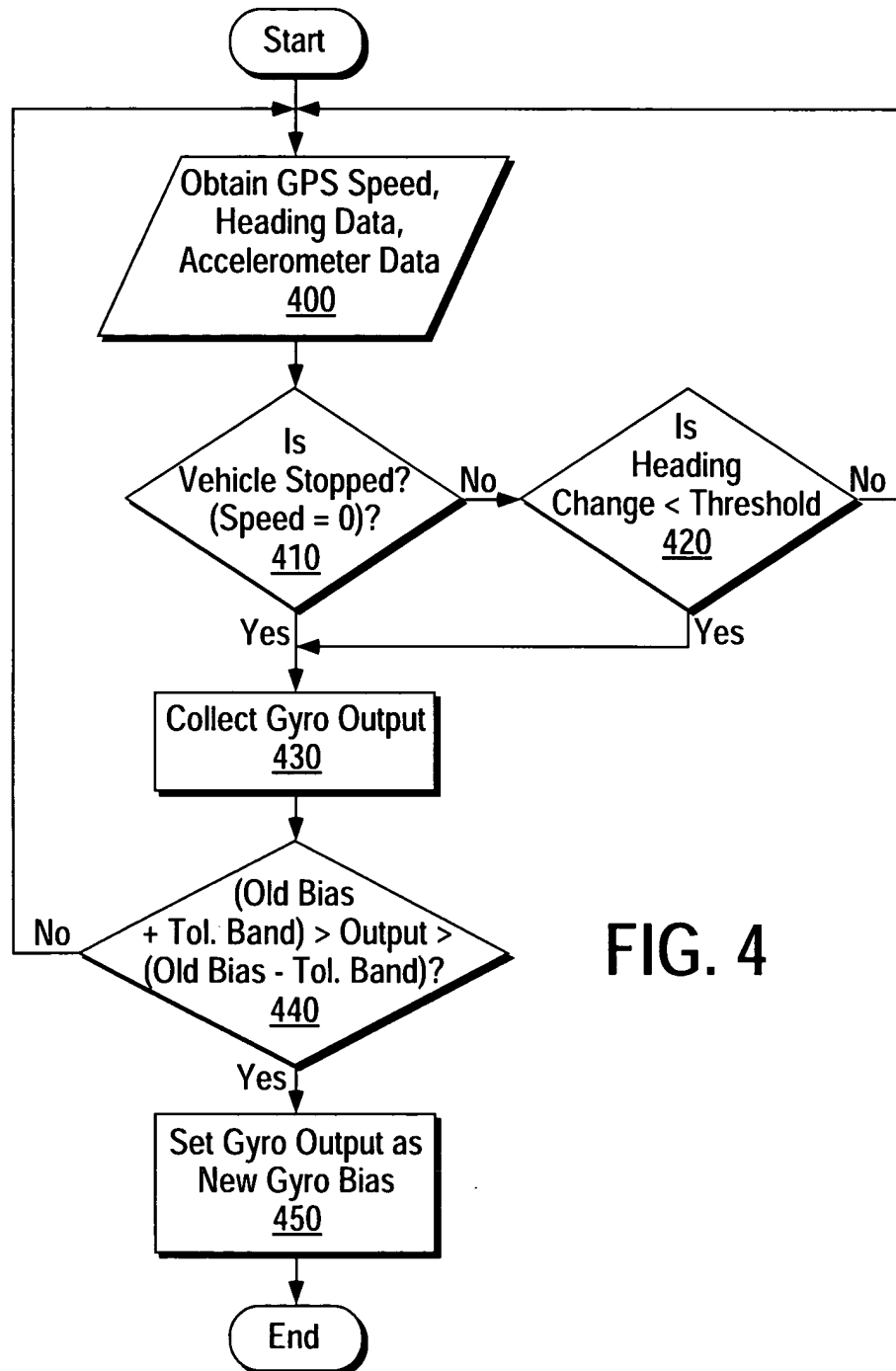


FIG. 3B



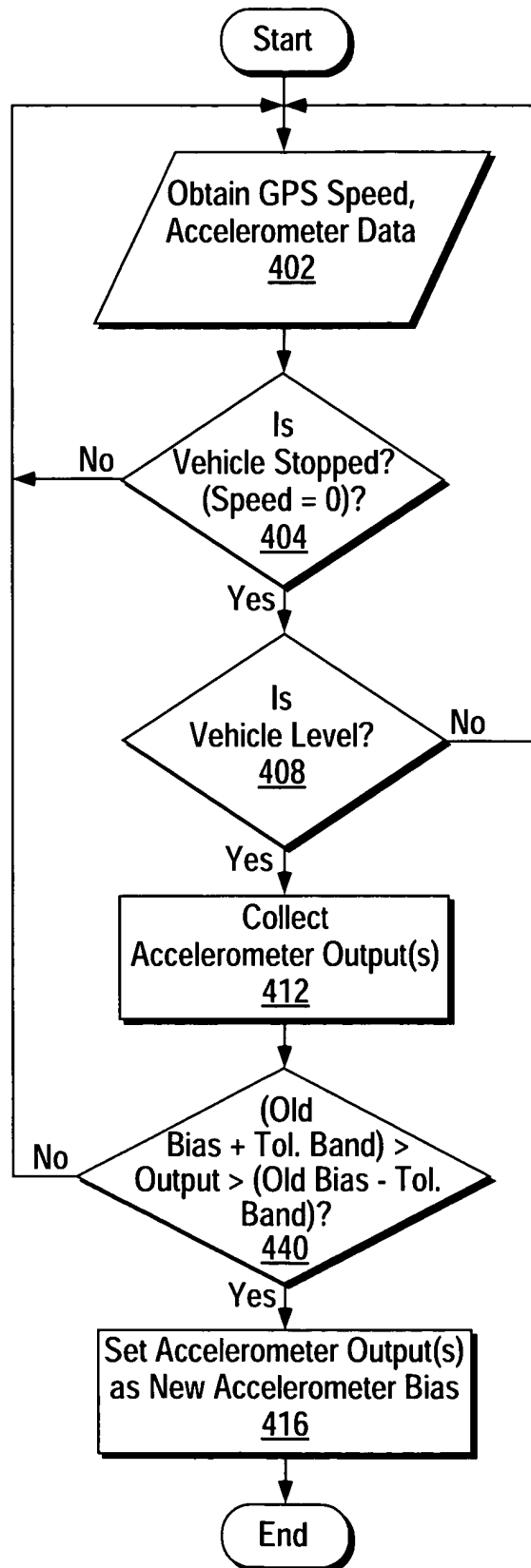


FIG. 5

FIG. 6A

FIG. 6

FIG. 6A

FIG. 6B

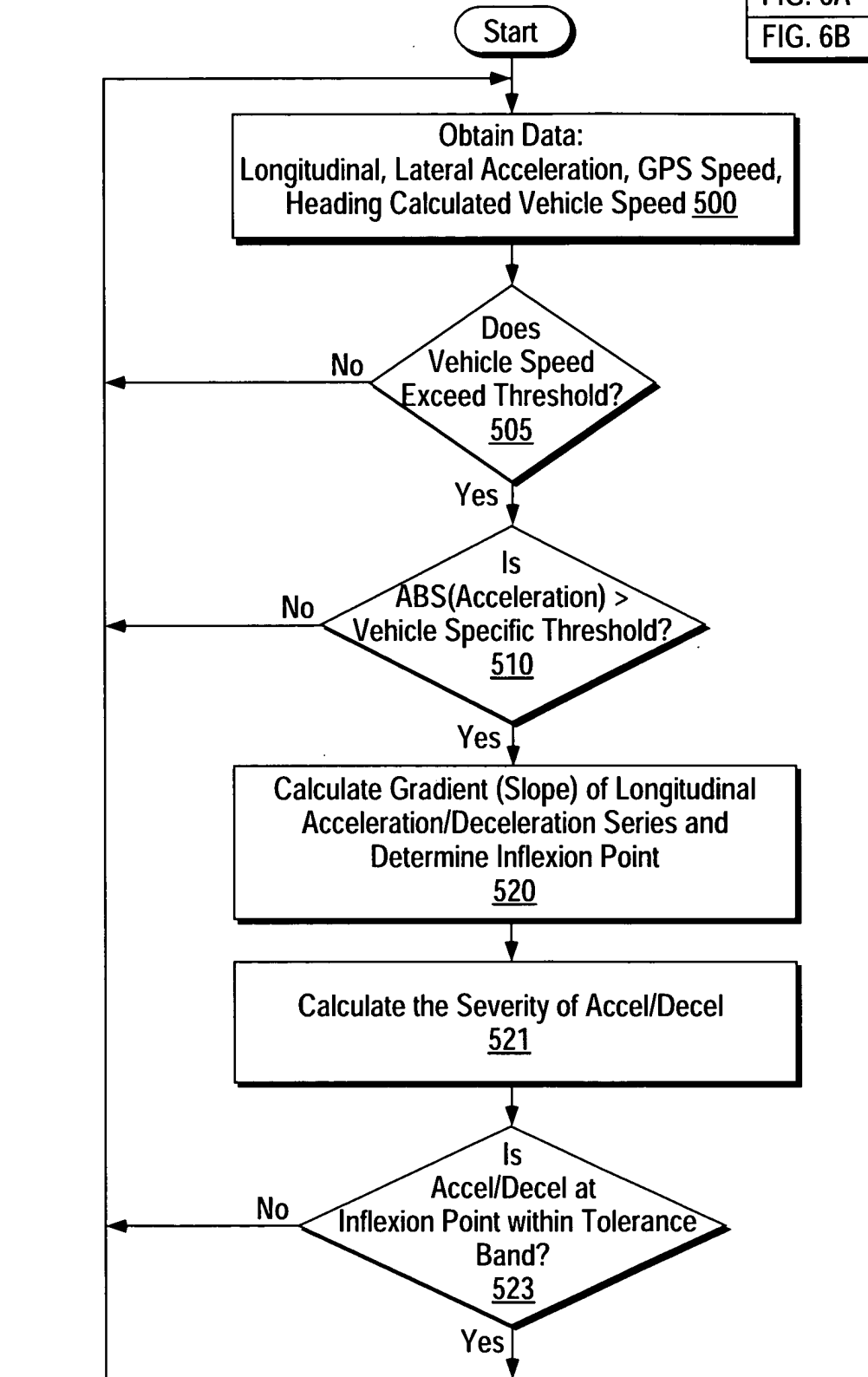


FIG. 6B

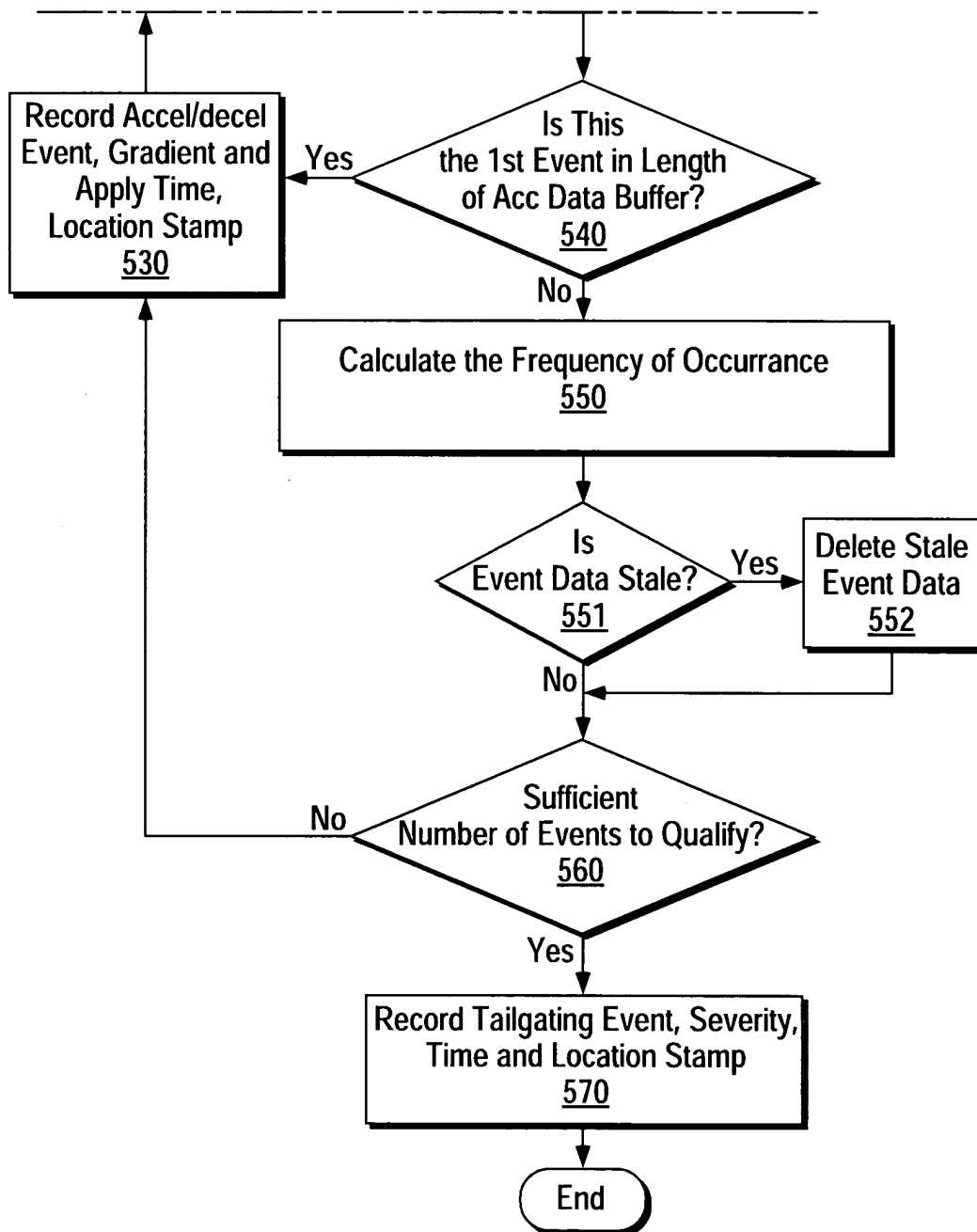


FIG. 7A

FIG. 7

FIG. 7A

FIG. 7B

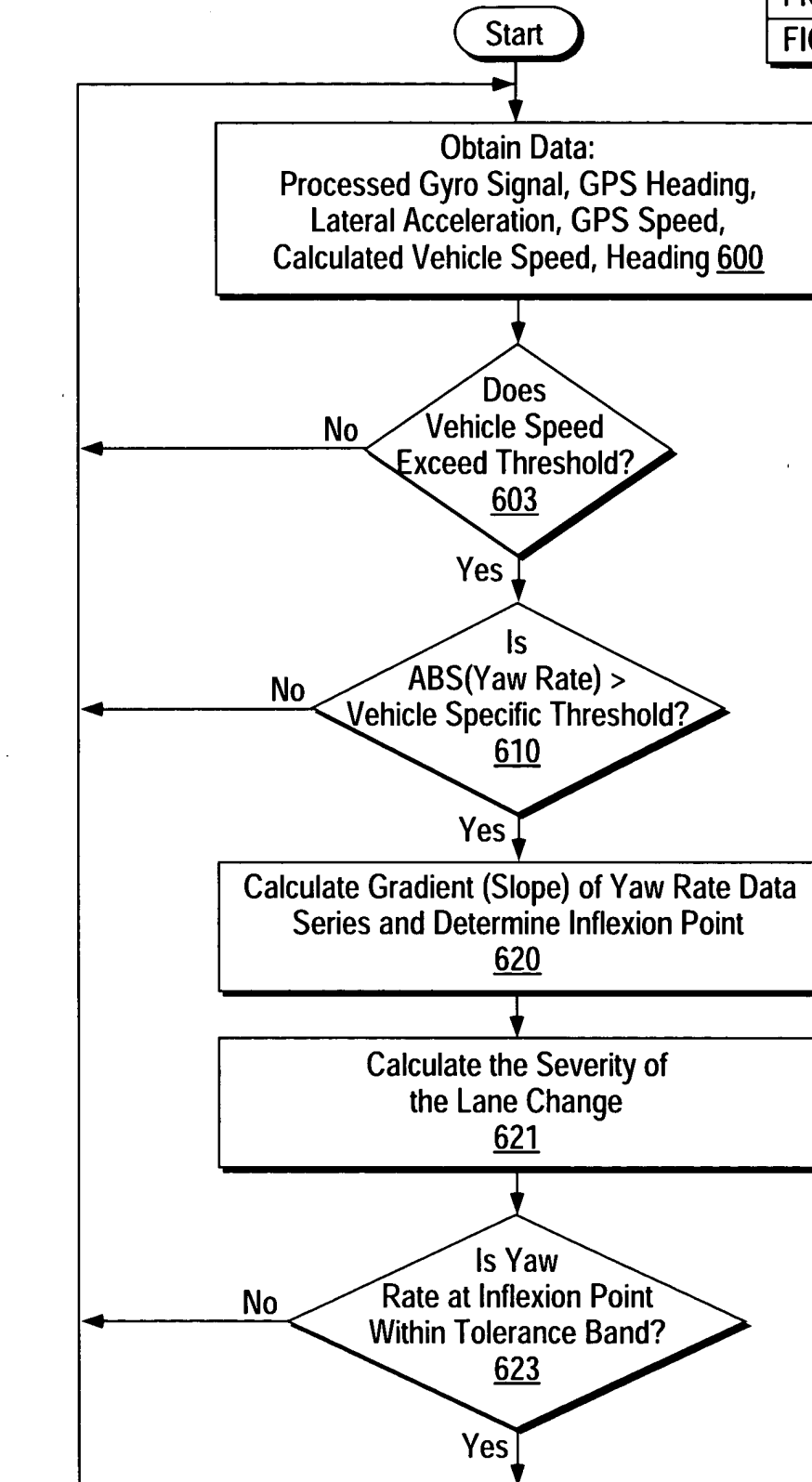




FIG. 7B

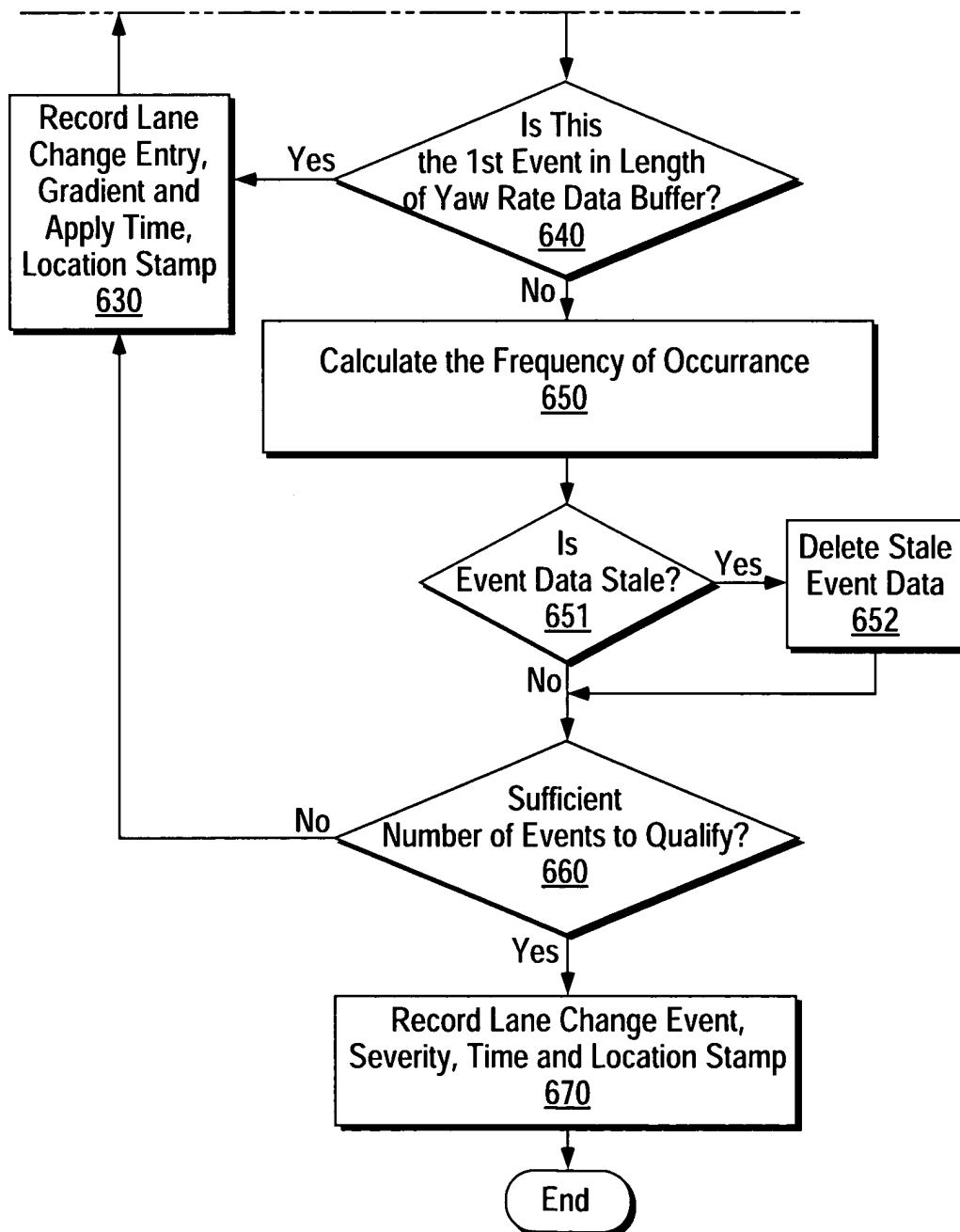


FIG. 8A

FIG. 8

FIG. 8A

FIG. 8B

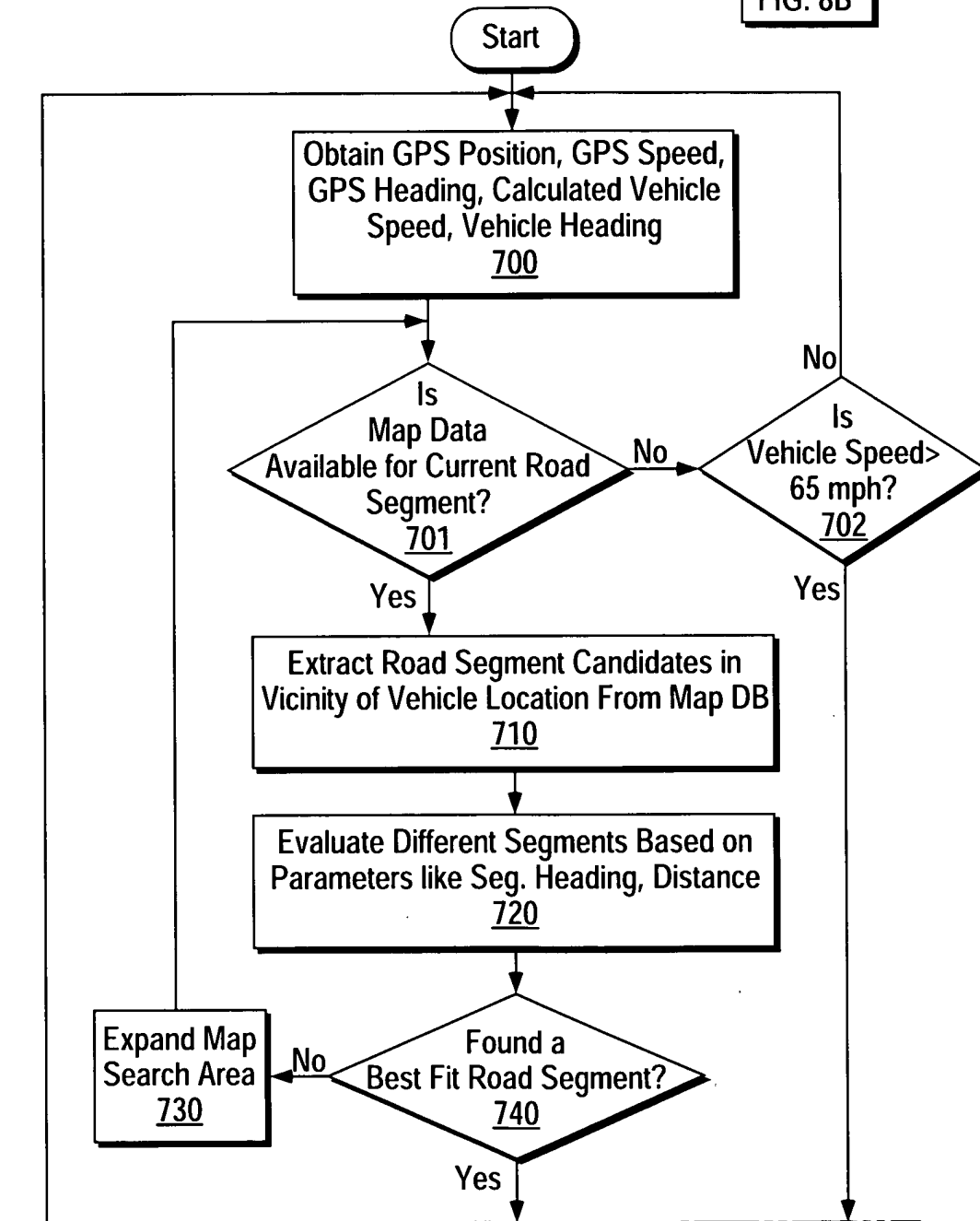


FIG. 8B

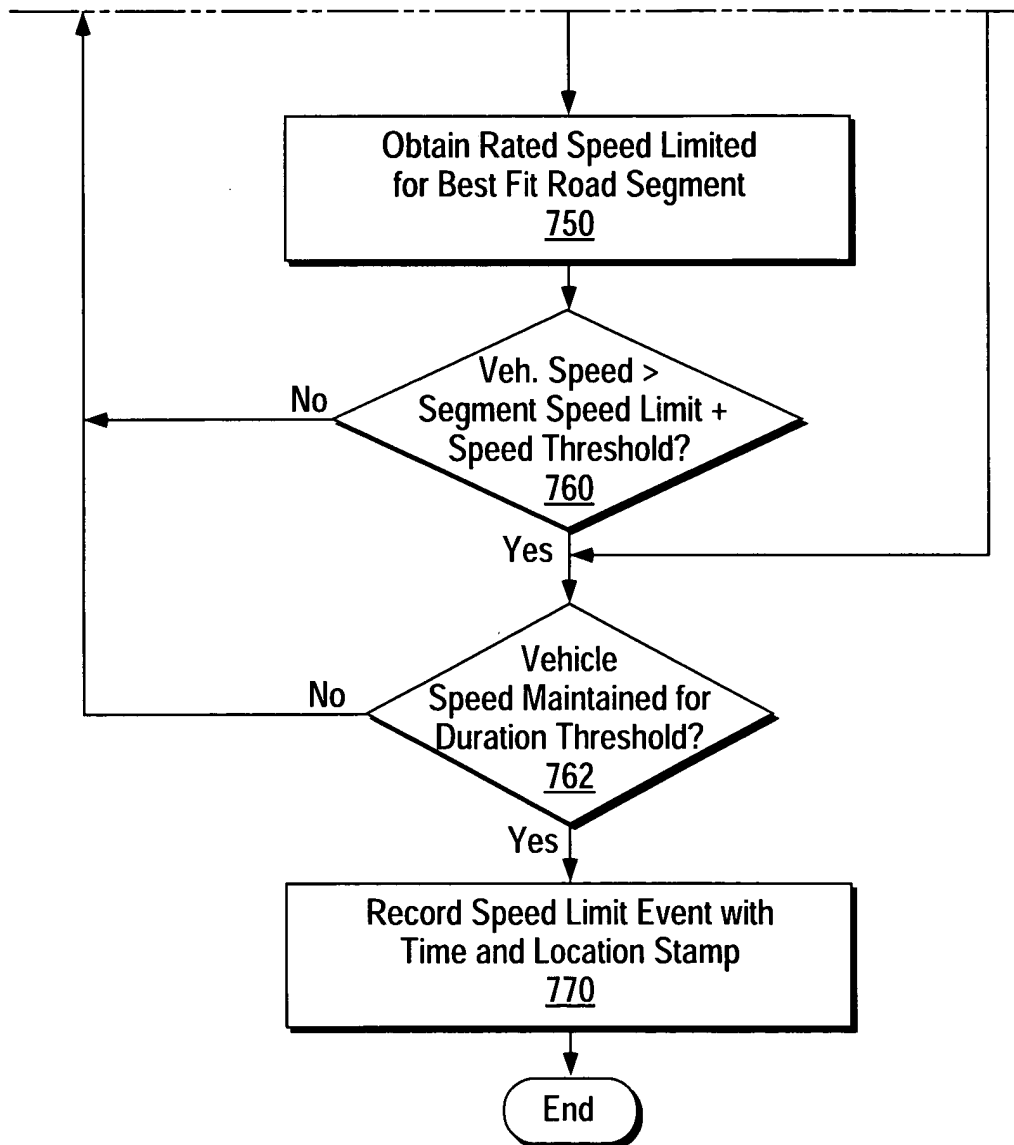


FIG. 9A

FIG. 9

FIG. 9A

FIG. 9B

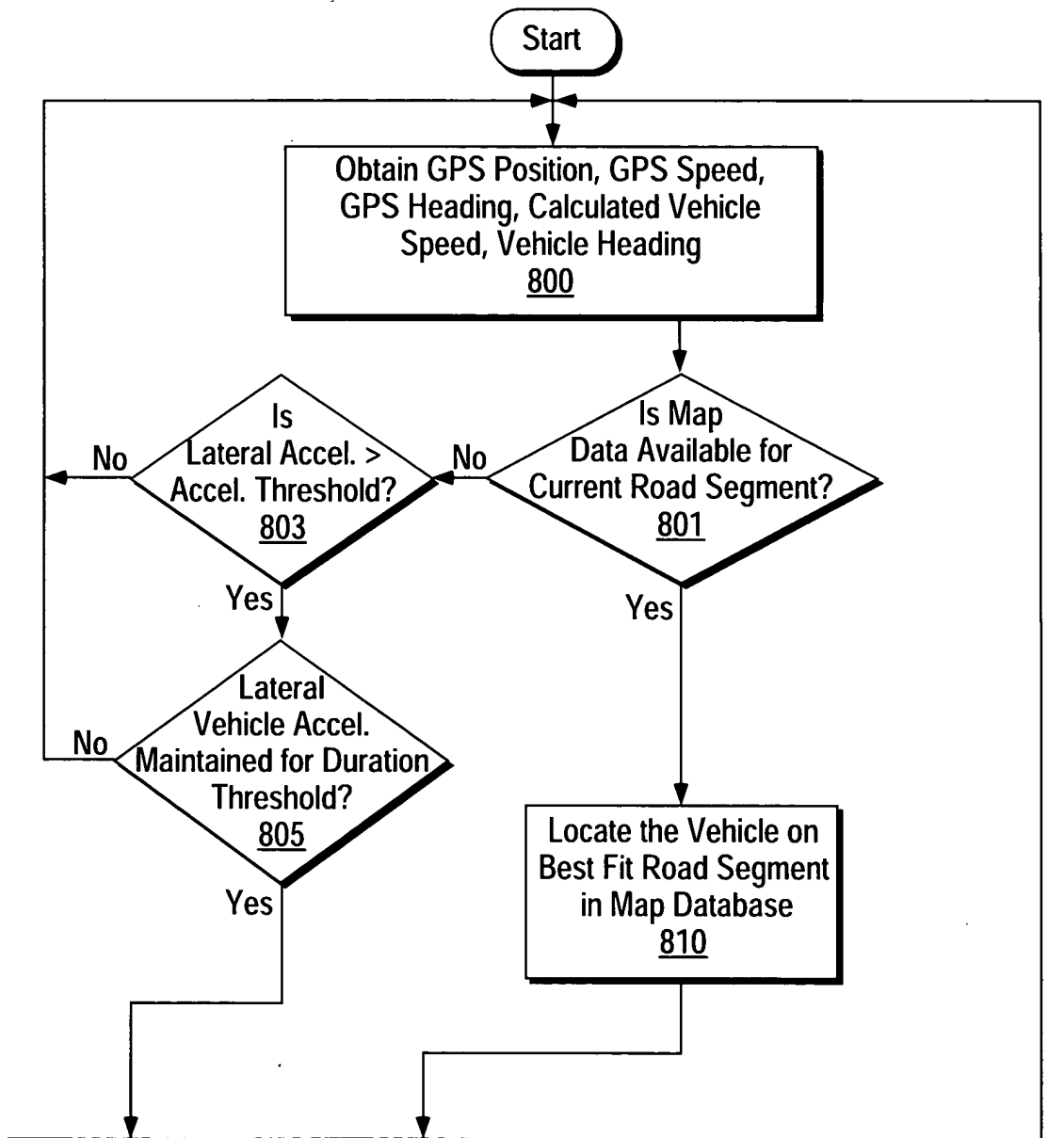
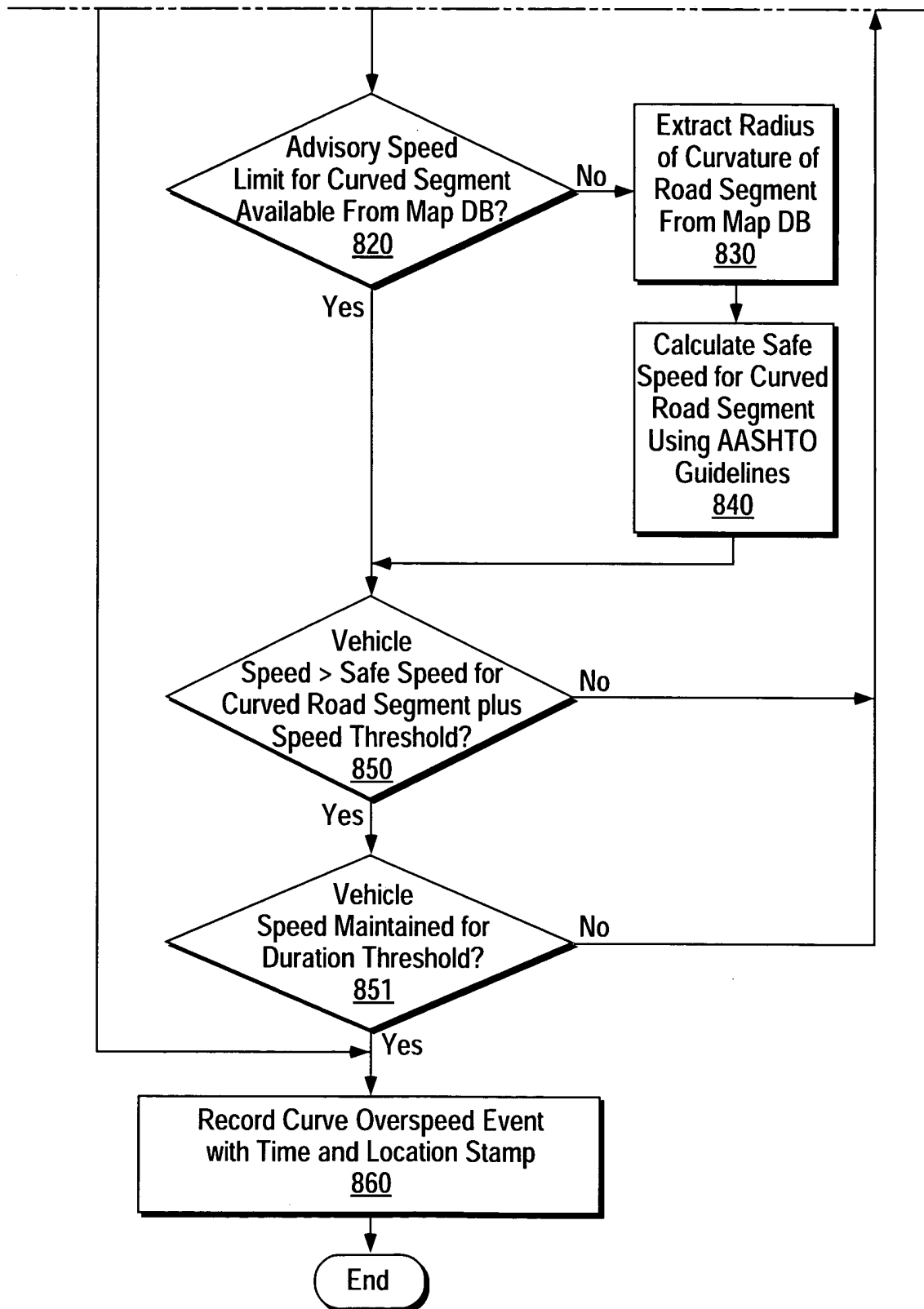


FIG. 9B











Alerts/Notifications		Messages	1100	
S. No	Name	Date/Time	1102	Action 1104
1	FleetHistory	2004-02-10 10:00:00		
2	FleetHistory	2004-02-11 10:00:00		
3	FleetHistory	2004-02-12 10:00:00		
4	FleetHistory	2004-02-13 10:00:00		

FIG. 10

## Total Fleet Safety Historical Report

Fleet Name Star Fleet

Period From: 2/01/2002 To: 2/26/2004, Yearly

Period	TG	FL	OS	CS	RA	RS	Total
2003	4	4	4	4	4	0	20
2004	0	0	0	0	1	3	4

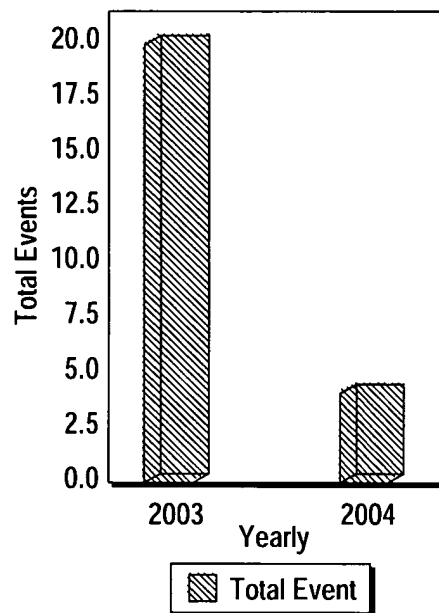


FIG. 11

























Vehicle List		Vehicle Details			
S. No	Vehicle Make	Vehicle Model	Vehicle Id	Class	Action
1	MACK	2215	CA-11-115667	Class A	  
2	FORD	F250	CA-15-114468	Class B	  
3	Toyota	Camrey	CA1243	Class A	  
4	Honda	Accord	5DVF	Class D	  
5	Toyota	Camrey	02	Class D	  
6	Toyota	Camrey	3CR	Class D	  
7	International	8100	349	Class A	  
8	Bench Unit	Unit_1	CA-12345	Class A	  
Add					

FIG. 12



Vehicle List	Vehicle Details
View Vehicle Details	
Vehicle Make	MACK
Vehicle Model	2215
Vehicle Id	CA-11-115667
Vehicle Class/Sub Class	Class A / 100cc
VSM HW Unit No	3
Modify	Remove

FIG. 13








































Driver List		Driver Details		
S. No	Driver Id	Driver Name	Vehicle Assigned	Action/View
1	Ronald	Bill SC, Ronald	Ford/Explorer	  
2	Gilman	Kevin B, Gilman	FreightLiner/F251	  
3	Bond	Roger M, Bond	MACK/2215	  
4	Norris	Chuck B, Norris	International/8100	  
5	Mark	Mark J, Thomas	FreightLiner/F251	  
6	James	James Jr., James	Not Assigned	  
7	MikeT	Mike J, Spear	FreightLiner/F251	  
8	b124356	John, Steward	MACK/2215	  
9	DR-001	Shawn, Collins	MACK/2215	  
10	Mahesh	Mahesh, Chowdhary	Honda/Accord	  
11	Murugesh	Murugesh, Bagavathi	Not Assigned	  
12	Guna	Guna, Govind	International/8100	  
13	John	John, Taylor	Bench Unit/Unit_1	  
Assign		Add		

FIG. 14

Driver List	Driver Details
View Driver	
Driver Id	Ronald
First Name	Bill
Middle Name	SC
Last Name	Ronald
Modify	Remove

FIG. 15




























Configuration Parameter		Event Parameter		Communication Parameter	
S. No	Event Parameter Name	Action			
1	Event Param One				
2	Medium Size Trucks				
3	FORD Pickups				
4	18-Wheelers				
5	Local hazardous				
6	High value transport				
7	Pickups				
8	Trucks on local				
9	Craig-Local trucks				
Add					

FIG. 16

Event Parameter List	Event Parameter Details
View Event Parameter	
Event Parameter Name	Event Param One
Over Speeding	
Speed Threshold Parameter	
For Highway (default 5 mph)	2 range (0 mph to 20 mph)
For City Street (default 5 mph)	5 range (0 mph to 15 mph)
Duration Threshold	
For Highway (default 5 mph)	5 range (0 mph to 20 mph)
For City Street (default 5 mph)	5 range (0 mph to 15 mph)
Curve Over-Speed Violation	
Speed Threshold Parameter	
(default 5 mph)	5 range (0 mph to 15 mph)
Duration Threshold	
(default 4 sec)	4 range (0 sec to 10 sec)
Rapid Acceleration	
Speed Threshold Parameter	
(default 0.15 g)	0.15 range (0.1 g to 0.4 g)
Duration Threshold	
(default 1 sec)	1 range (1 sec to 4 sec)
Rapid Deceleration	
Speed Threshold Parameter	
(default 0.18 g)	0.17 range (0.1 g to 0.65 g)
Duration Threshold	
(default 1 sec)	1 range (1 sec to 4 sec)

FIG. 17A

Tail Gating		
Speed Threshold Parameter		
(default 5 mph)	<input type="text" value="5"/>	range (0 mph to 20 mph)
Minimum Duration Threshold		
(default 1 sec)	<input type="text" value="1"/>	range (1 sec to 5 sec)
Maximum Duration Threshold		
(default 200 sec)	<input type="text" value="200"/>	range (100 sec to 1000 sec)
Frequent Lane Changes		
Speed Threshold Parameter		
(default 25 mph)	<input type="text" value="10"/>	range (0 mph to 20 mph)
Duration Parameter		
(default 1 sec)	<input type="text" value="1"/>	range (1 sec to 10 sec)
<div>Modify</div> <div>Remove</div>		

FIG. 17B
















Configuration Parameter		Event Parameter	Communication Parameter
S. No	Communication Parameter Name	Action	
1	Daily 6AM		 
2	Weekly Mon 9:15am		 
3	Monthly 5th 8:30am		 
4	Weekly Wednesday 7:1		 
5	Weekly 8am		 
Add			

FIG. 18

Communication List	Communication Details
View Communication	
Frequency	<input type="text" value="Daily"/>
Start Time	<input type="text" value="6:15:00"/>
<div>Modify</div> <div>Remove</div>	

FIG. 19

Configuration Parameter		Event Parameter	Communication Parameter	
S. No	Config Param	Event Param	Communication Param	Action
1	Special Category	Medium Size Trucks	Weekly Mon 9:15am	<div><div></div><div></div></div> <div><div></div><div></div></div>
2	My weekly reports	18-Wheelers	Weekly Mon 9:15am	<div><div></div><div></div></div> <div><div></div><div></div></div>
3	School Bus	High value transport	Weekly Wednesday 7:1	<div><div></div><div></div></div> <div><div></div><div></div></div>
4	New configuration	Event Param One	Weekly Mon 9:15am	<div><div></div><div></div></div> <div><div></div><div></div></div>
5	New configuration	Event Param One	Weekly Mon 9:15am	<div><div></div><div></div></div> <div><div></div><div></div></div>
6	My weekly	High value transport	Weekly 8am	<div><div></div><div></div></div> <div><div></div><div></div></div>
Add				

FIG. 20



Configuration List		Configuration Details	
View Configuration			
Configuration Parameter Name	<input type="text" value="Special Category"/>		*
Description	<input type="text" value="Check"/>		*
Event Parameter	<input type="text" value="Medium Size Trucks"/>		*
Communication Parameter	<input type="text" value="Weekly Mon 9:15am"/>		*
Select Vehicle Class/Vehicle			
<div>All<div><input type="checkbox"/></div>Selected<div><input type="checkbox"/></div></div>			
Class A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
Class B	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="text" value="CA-15-114468"/>
Class C	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
Class D	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
<div>Modify</div> <div>Remove</div>			

FIG. 21

Report List	Notification List
List of Reports	
Total Fleet Safety Historical Report	
Driver's Ranking System Report	
Driver Performance Report	
VSM Event Report	
Daily Exception Report	
Individual Driver Safety Trend Report	
Driver's Daily Event Report	

FIG. 22

## Total Fleet Safety Historical Report

Fleet: Fleet\_Name

Period: Year 2002, Monthly

Period	OS	TG	CS	FL	RA	RS	Total
Jan	<u>20</u>	<u>22</u>	<u>18</u>	<u>16</u>	<u>11</u>	<u>23</u>	<u>110</u>
Feb	<u>18</u>	<u>28</u>	<u>4</u>	<u>22</u>	<u>10</u>	<u>15</u>	<u>97</u>
Mar	<u>21</u>	<u>11</u>	<u>6</u>	<u>21</u>	<u>9</u>	<u>18</u>	<u>96</u>
April	<u>33</u>	<u>21</u>	<u>9</u>	<u>10</u>	<u>13</u>	<u>11</u>	<u>97</u>
May	<u>10</u>	<u>15</u>	<u>5</u>	<u>25</u>	<u>18</u>	<u>15</u>	<u>88</u>
June	<u>5</u>	<u>10</u>	<u>25</u>	<u>10</u>	<u>20</u>	<u>10</u>	<u>80</u>
Jul	<u>15</u>	<u>18</u>	<u>12</u>	<u>13</u>	<u>7</u>	<u>21</u>	<u>86</u>
Aug	<u>19</u>	<u>14</u>	<u>27</u>	<u>20</u>	<u>10</u>	<u>2</u>	<u>92</u>
Sep	<u>12</u>	<u>9</u>	<u>16</u>	<u>18</u>	<u>31</u>	<u>5</u>	<u>90</u>
Oct	<u>18</u>	<u>0</u>	<u>0</u>	<u>29</u>	<u>30</u>	<u>10</u>	<u>87</u>
Nov	<u>17</u>	<u>12</u>	<u>9</u>	<u>22</u>	<u>19</u>	<u>40</u>	<u>120</u>
Dec	<u>42</u>	<u>12</u>	<u>43</u>	<u>12</u>	<u>18</u>	<u>32</u>	<u>159</u>

OS: Over Speed, TG: Tailgate, CS: Curve negotiating Speed  
 FL: Frequent Lane change, RA: Rapid Acceleration, RS: Rapid Stops

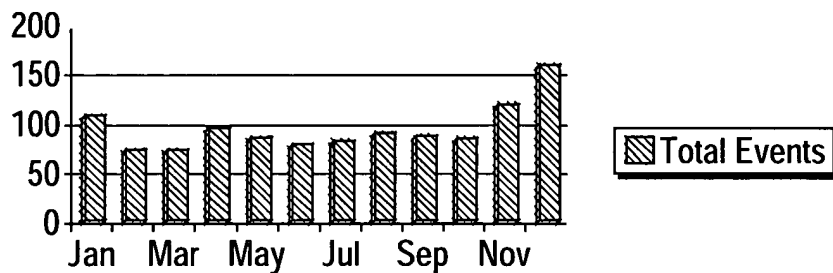


FIG. 23

### Driver Rankings by Event/Score

Fleet: Fleet\_Name

Period: March, Year 2002

Period	OS	TG	CS	FL	RA	RS	Total Events	Score
<u>James</u>	<u>4</u>	<u>3</u>	<u>4</u>	<u>8</u>	<u>26</u>	<u>13</u>	<u>58</u>	<u>45</u>
<u>Jay</u>	<u>6</u>	<u>8</u>	<u>12</u>	<u>14</u>	<u>32</u>	<u>12</u>	<u>84</u>	<u>58</u>
<u>David</u>	<u>9</u>	<u>12</u>	<u>6</u>	<u>12</u>	<u>40</u>	<u>30</u>	<u>109</u>	<u>65</u>
<u>Herman</u>	<u>12</u>	<u>0</u>	<u>7</u>	<u>16</u>	<u>32</u>	<u>45</u>	<u>112</u>	<u>72</u>
<u>Miller</u>	<u>8</u>	<u>16</u>	<u>19</u>	<u>18</u>	<u>55</u>	<u>38</u>	<u>154</u>	<u>86</u>
<u>Danny</u>	<u>19</u>	<u>7</u>	<u>21</u>	<u>23</u>	<u>32</u>	<u>42</u>	<u>144</u>	<u>98</u>
<u>Mason</u>	<u>18</u>	<u>19</u>	<u>31</u>	<u>37</u>	<u>45</u>	<u>52</u>	<u>202</u>	<u>124</u>
<u>Susan</u>	<u>21</u>	<u>11</u>	<u>12</u>	<u>29</u>	<u>82</u>	<u>64</u>	<u>219</u>	<u>156</u>
<u>Sam</u>	<u>22</u>	<u>15</u>	<u>22</u>	<u>40</u>	<u>70</u>	<u>68</u>	<u>237</u>	<u>190</u>
<u>Bran</u>	<u>24</u>	<u>18</u>	<u>24</u>	<u>30</u>	<u>89</u>	<u>72</u>	<u>257</u>	<u>230</u>

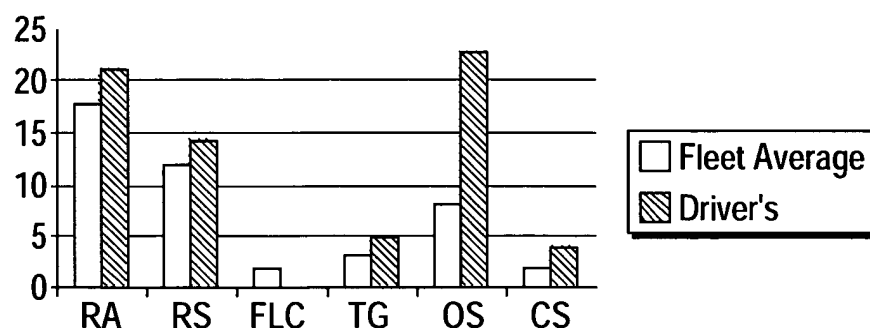
OS: Over Speed, TG: Tailgate, CS: Curve negotiating Speed,  
FL: Frequent Lane change, RA: Rapid Acceleration, RS: Rapid Stops

FIG. 24

## Driver's Performance Report

Fleet: Fleet\_Name  
 Driver ID: 045236  
 Name: Bill Martin  
 Period: 10/01/2002 to 10/15/2002

Event Number	Event Type	Location	Violation	Score
<u>2345</u>	RA	Lawrence Exp X El Camino towards Lawrence Exp North	0-60 in 30 sec (75)	4
<u>2356</u>	OS	San Tomas X El Camino towards San Tomas South	12 miles over 45 miles for 37 seconds	5
<u>2361</u>	OS	Main Street towards North	6 miles over 25 miles for 45 seconds	6
<u>2380</u>	TG	Lawrence Exp X 101 South	1.7 Miles	5
<u>2382</u>	TG	First Street X 101 South	2.3 Miles	7
<u>2385</u>	TG	Kings X 101 South	1.3 Miles	4
<u>2387</u>	OS	Capitol X 101 South	6.2 Miles	6
<u>2397</u>	CS	101(S) to 85(N)	0.4 Miles	7



### FIG. 25

### VSM Event Report


Driver ID: 045236  
Name: Bill Martin  
Date & Time: March 28, 2003. 10:46am  
Event Id: 0345  
Event Type: Frequent Lane Change Violation

Vehicle Type: Class A  
Location: Lawrence Expwy  
Santa Clara, CA 95051

Travel Direction: Lawrence Expwy (N)

Index	Peak heading change	Peak Speed	Low Speed	# left lane change	# right lane change	Duration	Points
1	4 deg/sec	50 mph	45 mph	3	2	180 sec	3

Geographical map with the event locations highlighted.



Option to show full screen map

Next Event

Prev Event

FIG. 26

## VSM Event Report

Driver ID: 045236  
Name: Bill Martin  
Date & Time: March 28, 2003. 10:46am  
Event Id: 0345  
Event Type: Tailgating  
Vehicle Type: Class A  
Location: Lawrence Expwy and El Camino Real,  
Santa Clara, CA 95051

Travel Direction: Lawrence Expwy (N)

Index	Peak Accel/Decel	Peak Speed	Low Speed	# Accel Peaks	# Decel Peaks	Duration	Points
1	0.05g	55 mph	39 mph	4	2	180 sec	3

Geographical map with the event  
locations highlighted.

Option to  
show full  
screen map



Next Event

Prev Event

FIG. 27

## VSM Event Report

Driver ID: 045236  
Name: Bill Martin  
Date & Time: March 28, 2003. 10:46am  
Event Id: 0345  
Event Type: Rapid Deceleration  
Vehicle Type: Class A  
Location: Lawrence Expwy and El Camino Real,  
Santa Clara, CA 95051

Travel Direction: Lawrence Expwy (N)  
Violation 1: 0.2g (Acceptable level 0.185g)

Index	Violation	Acceptable Level	Peak Speed	Final Speed	Duration	Points
1	0.2g	0.185g	35 mph	0 mph	2 sec	3

Geographical map with the event locations highlighted.

Option to show full screen map



Next Event

Prev Event

FIG. 28



## VSM Event Report

Driver ID: 045236  
Name: Bill Martin  
Date & Time: March 28, 2003. 10:46am  
Event Id: 0345  
Event Type: Rapid Acceleration  
Vehicle Type: Class A  
Location: Lawrence Expwy and El Camino Real,  
Santa Clara, CA 95051

Travel Direction: Lawrence Expwy (N)  
Violation 1: 0.18g (Acceptable level 0.15g)

Index	Violation	Acceptable Level	Initial Speed	Peak Speed	Duration	Points
1	0.18g	0.15g	2 mph	30 mph	3 sec	3

Geographical map with the event locations highlighted.

Option to show full screen map



Next Event

Prev Event

FIG. 29

## VSM Event Report

Driver ID: 045236  
Name: Bill Martin  
Date & Time: March 28, 2003. 10:46am  
Event Id: 0345  
Event Type: Speed Limit Violation  
Vehicle Type: Class A  
Location: Lawrence Expwy and El Camino Real,  
Santa Clara, CA 95051

Travel Direction: Lawrence Expwy (N)  
Violation 1: 55mph (Speed Limit 45mph)

Index	Violation	Speed Limit	Duration	Points
1	55mph	45mph	300 sec	6

Geographical map with the event locations highlighted.

Option to show full screen map



Next Event

Prev Event

FIG. 30


### VSM Event Report

Driver ID: 045236  
Name: Bill Martin  
Date & Time: March 28, 2003. 10:46am  
Event Id: 0345  
Event Type: Curve Over-speed Violation  
Vehicle Type: Class A  
Location: Lawrence Expwy and El Camino Real,  
Santa Clara, CA 95051

Travel Direction: Lawrence Expwy (N)

Index	Violation	Safe Speed	Peak Lateral Acceleration	Points
1	32mph	25mph	0.4 g	3

Geographical map with the event locations highlighted.



Option to show full screen map

Next Event

Prev Event

FIG. 31

## Daily Exception Report

Fleet: Fleet\_Name  
 Date: 10/01/2004  
 Time: 6:00am to 11:30pm

Driver	RA	RS	OS	TG	CS	FLC	Total Points
<u>James</u>	<u>14</u>	<u>19</u>	<u>12</u>	<u>0</u>	<u>9</u>	<u>2</u>	<u>60</u>
<u>Miller</u>	<u>9</u>	<u>6</u>	<u>1</u>	<u>2</u>	<u>4</u>	<u>2</u>	<u>55</u>
<u>Mason</u>	<u>7</u>	<u>0</u>	<u>4</u>	<u>0</u>	<u>2</u>	<u>9</u>	<u>48</u>
<u>David</u>	<u>22</u>	<u>1</u>	<u>0</u>	<u>2</u>	<u>0</u>	<u>5</u>	<u>39</u>
<u>Mike</u>	<u>7</u>	<u>9</u>	<u>12</u>	<u>7</u>	<u>16</u>	<u>4</u>	<u>69</u>
<u>Ross</u>	<u>12</u>	<u>11</u>	<u>7</u>	<u>21</u>	<u>8</u>	<u>22</u>	<u>98</u>
<u>Kelly</u>	<u>7</u>	<u>3</u>	<u>12</u>	<u>9</u>	<u>2</u>	<u>0</u>	<u>12</u>
<u>Das</u>	<u>8</u>	<u>21</u>	<u>17</u>	<u>9</u>	<u>0</u>	<u>11</u>	<u>34</u>
<u>Sam</u>	<u>31</u>	<u>18</u>	<u>24</u>	<u>0</u>	<u>2</u>	<u>4</u>	<u>66</u>
<u>Susan</u>	<u>5</u>	<u>3</u>	<u>9</u>	<u>12</u>	<u>8</u>	<u>19</u>	<u>32</u>

FIG. 32

## Individual Driver Safety Trend

Fleet: Fleet\_Name

Driver: Bill Martin

Period: Jan 2002 to Jun 2002, Monthly

Period	OS	TG	CS	FL	RA	RS	Total
Jan	<u>40</u>	<u>22</u>	<u>12</u>	<u>30</u>	<u>56</u>	<u>48</u>	<u>208</u>
Feb	<u>32</u>	<u>28</u>	<u>6</u>	<u>24</u>	<u>45</u>	<u>34</u>	<u>169</u>
Mar	<u>12</u>	<u>4</u>	<u>2</u>	<u>12</u>	<u>32</u>	<u>24</u>	<u>86</u>
April	<u>6</u>	<u>2</u>	<u>4</u>	<u>15</u>	<u>24</u>	<u>14</u>	<u>65</u>
May	<u>12</u>	<u>3</u>	<u>4</u>	<u>8</u>	<u>26</u>	<u>24</u>	<u>77</u>
Jun	<u>7</u>	<u>2</u>	<u>3</u>	<u>12</u>	<u>22</u>	<u>18</u>	<u>64</u>

OS: Over Speed, TG: Tailgate, CS: Curve negotiating Speed,  
FL: Frequent Lane change, RA: Rapid Acceleration, RS: Rapid Stops

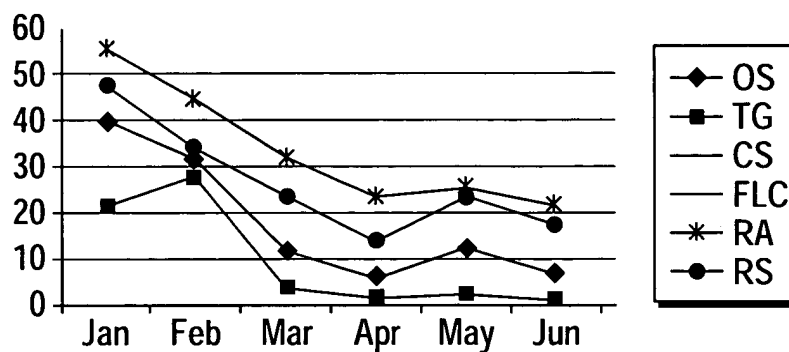
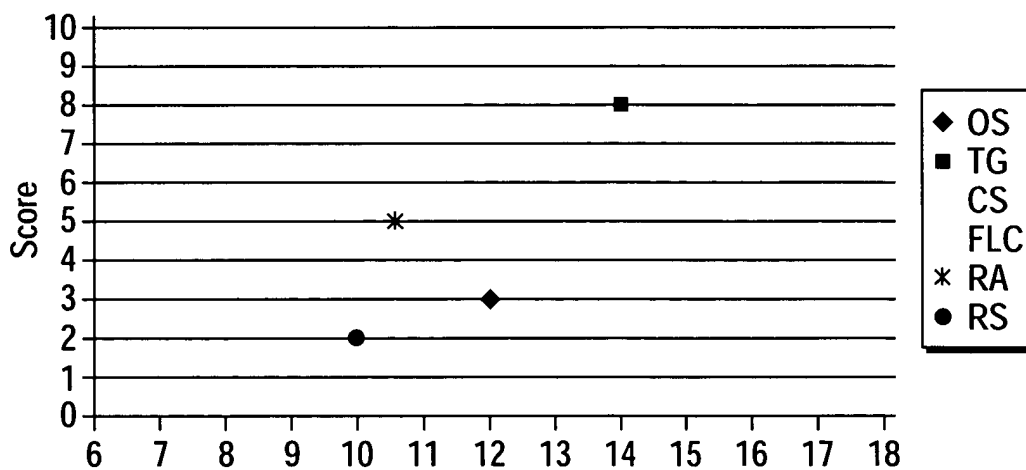


FIG. 33

## Driver's Daily Event Report

Fleet: Bill Martin  
 Driver ID: 045236  
 Name: James Ortiz  
 Period: 10/01/2002

Event Number	Event Type	Location	Violation	Score
<u>345</u>	RA	Lawrence Exp X El Camino towards Lawrence Exp North	0 mph-60 mph in 30 sec instead of 75 sec	8
<u>456</u>	OS	San Tomas X El Camino towards San Tomas South	5 mph over 40 mph for 45 seconds	5
<u>466</u>	TG	Main Street towards North	2 miles	6
<u>523</u>	RS	101 near Dumbarton bridge, Mountain View towards 101 South	45 mph-15 mph in 4 seconds	6



### FIG. 34